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2834

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9/W9/09/ APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. 09/429,935 10/29/99 SHICHIJYO Α PM-264103 **EXAMINER** MMC2/0308 PILLSBURY MADISON & SUTRO LLP GONZALEZ, J INTELLECTUAL PROPERTY GROUP **ART UNIT** PAPER NUMBER

1100 NEW YORK AVENUE NW NINTH FLOOR EAST TOWER WASHINGTON DC 20005-3918

DATE MAILED:

03/08/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

		Application No.	Applicant(s)
•		09/429,935	SHICHIJYO, AKIYA
. Office Action Summary			Art Unit
	Office Action Cammery	Examiner	
		Julio C. Gonzalez	2834 correspondence address
The MAILING DATE of this communication appears on the cover sheet with the correspondence address			
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.			
after SIX (6) MONTHS from the third state of the statutory minimum of thirty (30) days will be contained a state of this communication. If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be contained as the state of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication to become ABANDONED (35 U.S.C. § 133). Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status			
	Responsive to communication(s) filed on	·	
201	This action is FINAI 2b)⊠ TI	nis action is non-final.	a and a second to
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.			
Disposition of Claims			
4)⊠ Claim(s) 1-15 is/are pending in the application.			
4a) Of the above claim(s) is/are withdrawn from consideration.			
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-15</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claims are subject to restriction and/or election requirement.			
Application Papers			
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on 29 October 1999 is/are objected to by the Examiner.			
11) The proposed drawing correction filed on is: a) approved b) disapproved.			
12) The oath or declaration is objected to by the Examiner.			
Priority under 35 U.S.C. § 119 13)			
a) ⊠ All b) ☐ Some * c) ☐ None of:			
}	to the deciments have been received		
	—		
	Obvious of the continue conies of the priority documents have been received in this National Stage		
application from the International Bureau (FOT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.			
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).			
Attachmen		18) 🗋 Interview	Summary (PTO-413) Paper No(s)
16\ \ Not	ice of References Cited (PTO-892) tice of Draftsperson's Patent Drawing Review (PTO-948 ormation Disclosure Statement(s) (PTO-1449) Paper No	3) 19) Notice of	Informal Patent Application (PTO-152)

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DETAILED ACTION

Drawings

- The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5)
 because they include the following reference sign(s) not mentioned in the description: 5,
 43, 79 and P. Correction is required.
- 2. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: frame 4. Correction is required.
 - 7 3. The drawings are objected to because in figure 1, the claw pole 33 and core 22 point to the same part and core 22 seems to be in two different places. Correction is required.
 - 4. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the wall and frame must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:

 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
 - 6. Claims 1-15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

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In claim 1, applicant refers to the wall having "lead-wire-holes". Are these "holes" just in the leads or are they holes made in the wall of the stator? Is the stator being cut through to make these holes?

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 1-15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda et al in view of Ooiwa et al.

Umeda et al discloses an ac generator 1 for a vehicle comprising a rotor 3 having a shaft 6; a stator 2 having multi-phase stator winding 2 which has output for respective phase voltages; ac generator 1 further comprising a cooling fan 11 fixed to one end of rotor 3 and multi-phase stator winding 2 comprising a plurality of three-phase winding which are different in phase (see figure 18). Also, Umeda et al discloses a rectifier unit 5 which comprises a plurality of three-phase rectifiers (see figure 18) and stator winding 2 comprises a first star-connected three-phase winding and a second star-connected three-phase winding.

However, Umeda et al does not disclose output lead wires being used for the stator and fin parts in the ac generator.

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On the other hand, Ooiwa et al discloses, for the purpose of improving the cooling performance in an ac generator, a rectifier unit 5 having input terminal connected to output lead wires which further comprises a terminal member 513 in lead-wire-holes for holding the output lead wires. Also, the wall having at least two output lead wires to be respectively connected to input terminal (see figure 5 and 6) and the rectifier unit 5 comprises a common positive cooling fin 501 and a common negative fin 503 (column 2, lines 23-27). Moreover the wall has three lead wires holes each of which has a bundle of said output lead wires respectively extending from the pair of three-phase windings (see figure 5 and 6).

It would have been obvious to one having ordinary skill in the art to design an ac generator with a shaft, a rotor, stator, a plurality of three-phase stator winding, a cooling fan and a plurality of rectifiers as disclosed by Umeda et al and to include a positive and negative fin and terminal members with lead connections each of which has a bundle for the purpose to improve the cooling performance of an ac generator as disclosed by Ooiwa et al.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio C. Gonzalez whose telephone number is (703) 305-1563. The examiner can normally be reached on M-F (8AM-5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308-1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305-1341 for regular communications and (703) 305-1341 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

NESTOR RAMIREZ
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

Jcg

March 1, 2001